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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,521	09/23/2004	Efthimios Papayianis	2002-007	5520
32170 U.S. ARMY TA	7590 04/06/2007 ACOM-ARDEC	•	EXAM	INER
ATTN: AMSTRA-AR-GCL BLDG 3 PICATINNY ARSENAL, NJ 07806-5000			CLEMENT, MICHELLE RENEE	
			ART UNIT	PAPER NUMBER
			3641	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	04/06/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/711,521	PAPAYIANIS ET AL.			
		Examiner	Art Unit			
		Michelle (Shelley) Clement	3641			
Period fo	The MAILING DATE of this communication apports Reply	ears on the cover sheet with the c	orrespondence address			
VVHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION B6(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ARANDONE	the mailing date of this communication.			
Status		•				
1)⊠	Responsive to communication(s) filed on 23 September 2004.					
⁻ 2a)□		action is non-final.				
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4) 🖂	Claim(s) 1-4 is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
_	Claim(s) is/are allowed.					
	Claim(s) 1-4 is/are rejected.					
	Claim(s) is/are objected to.		•			
	Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers	·				
	The specification is objected to by the Examiner	_				
	·		-			
10)	The drawing(s) filed on is/are: a) acce					
	Applicant may not request that any objection to the o	•	` •			
11)	Replacement drawing sheet(s) including the correction.		` ,			
''/	The oath or declaration is objected to by the Exa	arniner. Note the attached Office	Action or form PTO-152.			
Priority ι	ınder 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori	have been received. have been received in Application	on No			
	application from the International Bureau		a iii ano riadonal otago			
* S	see the attached detailed Office action for a list of	• • • • • • • • • • • • • • • • • • • •	d. ·			
Attachmen¹ 1) ⊠ Notic	t(s) e of References Cited (PTO-892)	4) Interview Summary ((PTO-413)			
	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te			
· — _	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Notice of Informal Pa	atent Application			
		J,				

DETAILED ACTION

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Ingersoll (US Patent # 5,390,604). Ingersoll discloses a method of determining the time to a desired height of burst of a projectile comprising the steps of determining the time that it takes the projectile to reach its apex after launch and calculating the time to the desired time of burst based upon the time. Wherein the time to the desired time of burst is a percentage of the time that it takes the projectile to reach its apex.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ingersoll as applied to claims 1 and 2 above. Ingersoll discloses the claimed invention except for the specific percentages and the specific height. Therefor, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the specific percentages and specific height, since it has been held that discovering an optimum value of a result effective

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variable involves only routine skill in the art. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michelle (Shelley) Clement whose telephone number is 571.272.6884. The examiner can normally be reached on Monday thru Thursday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached on 571.272.6873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michelle (Shelley) Clement

Primary Examiner Art Unit 3641